



**Course Outline**

**UNIVERSITY STUDIES**

**ENGG 102**

**Introduction to the Engineering Profession  
Fall Semester, 2013**

**2 CREDITS  
2 HOURS PER WEEK**

**INSTRUCTOR: Neil O'Donnell**

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**PHONE NUMBER:** (780) 791-4821

**E-MAIL:** neil.o'donnell@keyano.ca

**OFFICE NUMBER:** S209g

**OFFICE HOURS:**

Monday	2:00 – 2:50 pm
Tuesday	11:00 – 11:50 am
Wednesday	11:00 – 11:50 am, 2:00 – 2:50 pm
Thursday	11:00 – 11:50 am
Friday	----

Other times are possible, by appointment

**HOURS OF INSTRUCTION:**

Wednesday 7:00 – 9:00 pm Room S214

**COURSE DESCRIPTION:**

This course is an introduction to the engineering profession. Students may examine: engineering disciplines; cooperative education; study skills; career fields and work opportunities; history and development of the profession; professional responsibilities; ethics; and engineering and society. A survey of graphical communication methods and an introduction to the design process used by engineers may be included. Where required, students will attend seminars presented by professional engineers of various disciplines.

**PRE-REQUISITE(S):**

Admission into the engineering program at Keyano College or permission of the Chairperson.

**COURSE OUTCOMES:**

The successful student will be able to:

1. Explain and contrast the various traditional and emerging disciplines within the engineering profession.
2. Conceptualize ethical problems in engineering, and formulate possible solutions.
3. Examine and give examples of career paths (pre- and post- degree) presented by guest speakers from the engineering industry.
4. Organize networking contacts with industry representatives to facilitate possible summer employment.
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6. Write reports and assignments in proper engineering style.

## REQUIRED RESOURCES:

- Engineering Success, P. Schiavone, Third Edition, Prentice-Hall, 2007.
- A Canadian Writer's Reference, Third Edition, D. Hacker, Bedford/St. Martin's Press, 2003.
- Grammar at Work for Technical Communication, D. Klepp, Pearson/Prentice Hall, 2009.

## REFERENCES:

Reading and exercises may be given from the following books on reserve in the library.

- Engineering Your Future, W.C. Oakes et al., Second Edition, Great Lakes Press, 2000.
- Canadian Professional Engineering Practice and Ethics, Gordon C. Andrews and John D. Kemper, Second Edition, Saunders College Canada, 1999.
- Introduction to Engineering, P.H. Wright, Third Edition, Wiley, 2002.
- Other handouts and supplemental material.

## TOPICS TO BE COVERED:

### **Please Note:**

This course outline may be modified to facilitate unforeseen time constraints. Date and time allotted to each topic is subject to change. A sample schedule of guest speakers and lecture topics will be presented at the first class on Wednesday, Sept.4, 2013.

A number of formats for the learning of course content will be used. Details of the presentation format, term work, assignments, and text references for the content will be given as the course progresses. The order in which these topics are addressed and the time spent on each may vary, depending on the availability of guest speakers. It is your responsibility to obtain such material and information by attending class regularly. You will be expected to actively interact with our guest speakers. Together, we can make this class a productive and practical learning experience.

## MOODLE

Go to <http://ilearn.keyano.ca>

This course is supported through Moodle. Assignments, readings and handouts will be posted on Moodle. Login information will be provided by your instructor. For further instructions please see the Moodle handout.

## EVALUATION:

Assignment	Percentage	Due Date
Lecture Assignments	15%	Weekly, as occur
Ethics Workshops	15%	Weekly, as occur
Reports on 5-7 Guest Speakers	30% (5% each)	Weekly, as occur
Final Examination	40%	TBA

The final grade is pass/fail and includes satisfactory completion of term work. The final exam will be written during the final class period (alternative – take-home exam) and will be based on the content of the presentations given in class during the semester (all presentations will be posted on the course website for review). You are required to successfully complete the final exam in order to receive credit in ENGG 102.

## GRADING SYSTEM:

You will receive one of two final grades in ENGG 102:

**Pass** – You have successfully completed the course and received credit.

**Fail** – You have failed to successfully complete one or more of the required components in the course and have not received credit. ENGG 102 is a requirement of your Engineering program and you must successfully complete it in order to receive your degree.

### *Final Exam*

The final exam will be based on the content of the presentations given in class during the semester (where possible, all presentations will be posted on the Moodle site for review). You are required to achieve a grade of 70% or higher on the final exam to successfully complete the course and receive credit in ENGG 102.

## NOTES:

### **MISSED ASSIGNMENTS AND REPORTS:**

A student who cannot complete an assignment or report due to incapacitating illness, severe domestic affliction or other compelling reasons can apply to have the weight of the missed item transferred to the final. All attempts should be made to make up missed assignments or reports. Missed items with no attempts to complete the work will be assigned a “0”.

You must notify the instructor via e-mail or Moodle of a missed item within 48 hours.

Deferral of term work is a privilege and not a right; there is no guarantee that a deferral will be granted. Misrepresentation of Facts to gain a deferral is a serious breach of the Code of Student Behaviour.

**CELL PHONES:** Cell phones and other electronic devices are to be turned off during class times. If you need to use one, leave the room. If you have to text someone, leave the room.

**STUDENTS WITH DISABILITIES:** Students who require accommodation in this course due to a disability are advised to discuss their needs with counsellors in the Registrar's office . Please ensure that the required forms for exams are submitted to the instructor **by the last lecture class** for the final exam.

**SKILL CENTRE:** Students who require additional help in developing strategies for better time management, study skills or examination skills should contact the Keyano College Skill Centre.

**Disclaimer:** Any typographical errors in this Course Outline are subject to change and will be announced in class. The date of the final examination is set by the Registrar.

**Note:** Recording is permitted only with the prior written consent of the instructor or if recording is part of an approved accommodation plan.

*Students should consult <http://www.keyano.ca/Academics/Examinations>*

#### **IMPORTANT DATES:**

September 4, 2013	First day of classes
September 17, 2013	Courses dropped after this date will be designated "W". (A withdrawal (W) is not reflected in your GPA).
October 25, 2013	Courses dropped after this date will be designated "WF". (A withdrawal failure (WF) counts as a 0 in your GPA).
December 6, 2013	Last day of classes
December 9-18, 2013	Final Exams

## COLLEGE POLICIES

### Equality, Equity and Respect

The Keyano College is committed to providing an environment of equality, equity and respect for all people within the College community. All members of this community are considered partners in developing teaching and learning contexts that are welcoming to all. Faculty, staff, and students are encouraged to use inclusive language to create a classroom atmosphere in which students' experiences and views are treated with equal respect and valued in relation to their gender, ethnic and cultural background, and sexual orientation.

*Students should consult:*

<http://www.keyano.ca/StudentLife/StudentConduct/IndividualRightsPolicy>

### Plagiarism and Cheating

Every student expects to be treated and evaluated fairly in a course. Plagiarism and cheating robs everyone of this right.

No student may submit words, ideas or data of another student or person as his or her own in any writing, project, assignment, quiz, electronic presentation, exam etc. Any work used that is not the student's own must be clearly cited as belonging to someone else. There are penalties for using other's work and not citing it. The Student's Rights & Responsibilities document clearly outlines these penalties and the appeal process.

- No learner can obtain information from another student during an exam.
- No learner can bring unauthorized information (paper or electronic) into an exam or quiz.
- No student can submit work done in another course for grading in this course without the written prior approval of the course instructor.
- No student can submit copyright protected or commercially produced materials as part or all of an assignment without proper citation & permission.

### Student Rights & Responsibilities

Students should consult

<http://www.keyano.ca/StudentLife/StudentConduct/AcademicPoliciesProcedures>

### Specialized Supports and Duty to Accommodate

*Disability Support Services: Learner Assistance Program*

If you have a documented disability or you think that you would benefit from some assistance from a Disabilities Counsellor, please call or visit the Disability Supports Office 780-792-5608 to book an appointment (across from the library). Services and accommodations are intended to assist you in your program of study, while maintaining the academic standards of Keyano College. We can be of assistance to you in disclosing your disability to your instructor, providing accommodations, and supporting your overall success at Keyano College.

*Specialized Supports and Duty to Accommodate*

Specialized Support and Duty to Accommodate are aligned with the office of Disability Support Services: Learner Assistance Program (LAP) guided by federal and provincial human rights legislation, and defined by a number of Keyano College policies. Keyano College is obligated by legislation to provide disability-related accommodations to students with identified disabilities to the point of undue hardship.